Decorative Industrial Plating, LLC
2531 N. Dodge Avenue
Helena, MT 59601
(406) 449-6626
(406) 442-6591 (Fax)
www.dipitnow.com

Finishes
Nickel – Copper – Chrome – Brass
24k Gold and Oil - Rubbed Bronze

Owners
Paul and Beckie Graham

Shop Manager
John Sanderson

April 23, 2020

Pretreatment Coordinator
Engineering Division
Public Works Department
316 N. Park Avenue
Helena MT 59623

Dear Pretreatment Coordinator:

Please find enclosed our TOMP and TTO Certification Statement along with our Industrial User Monitoring Report Form for the First quarter of 2020. Also enclosed is the analytical report and supporting documentation from Alpine Analytical.

If you have any questions or need further information please contact me at 449-6626.

Sincerely,

Paul Graham
Owner/Member

Enclosure Monitoring Report
Alpine Analytical Report
TOMP
TTO Certification Statement

City of Helena Wastewater Treatment Facility
2108 Custer Avenue East
Helena, MT 59602
(406) 457-8555

Industrial User Monitoring Report Form

Name of Business: **Decorative Industrial Plating** Permit Number: **DIP005**
Address: **2531 Dodge Avenue**
Contact Person Name: **Paul Graham, Owner** Alternate: **John Sanderson, Manager**
Telephone No. **406-449-6626**

Reporting Period: **Quarter** 1ST **Year** 2020

Please complete the following table, and include laboratory results for each parameter analyzed.

Pollutant Parameter	Daily Max (mg/l)	Monthly Average (mg/l)	Analytical Results in mg/l	Sample Date
Arsenic	**0.01**	**0.006**	<.001	3/26/20
Cadmium – T	**0.11**	**0.07**	<.0005	
Chromium – T	**2.77**	**1.71**	.002	
Chromium III	**2.36**	**1.46**	.002	
Chromium VI	**0.41**	**0.25**	<.001	
Copper –T	**3.38**	**2.07**	.263	
Cyanide – T	**1.20**	**0.65**	.12	
Lead – T	**0.69**	**0.43**	<.001	
Mercury	**0.25**	**N/A**	<.0006	
Molybdenum	**1.28**	**N/A**	<.001	
Nickel – T	**3.98**	**2.38**	.015	
Selenium	**0.95**	**N/A**	<.001	
Silver – T	**0.43**	**0.24**	<.001	
Zinc – T	**2.61**	**1.48**	.1	

Process Water

Beginning Meter Reading 416010 **Ending Meter Reading** 435870

(Beg – End) = HCF: HCF X 748 = gallons **Total gallons discharged** 19,860

4/60 10

pH must be maintained between 5.5 and 10.5 **Month** Jan **Year** 2020

DATE	pH	DATE	pH	DATE	pH
1		12		23	8.7
2	No Plate	13	8.7	24	No Plate
3	9.0	14	8.5	25	
4		15	8.8	26	
5		16	9.2	27	9.0
6	8.5	17	8.9	28	8.6
7	9.6	18		29	8.9
8	8.9	19		30	8.5
9	9.0	20	9.2	31	No Plate
10	No Plate	21	9.4		
11		22	8.9		

Incidences of Non-Compliance and Corrective Actions Taken

Was Non-Compliance experienced this reporting period? Yes ____ No ✓

If yes, describe non-compliance ____

Corrective Action Taken: ____

Analytical data attached (Y/N) Y **Hauled Waste (Y/N)** N

If yes attach copy of manifest

Certification Statement *(must be signed by authorized representative)*

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and/or imprisonment for knowingly or negligently submitting false or misleading information.

Signed: Paul Graham **Date and Time:** 2-4-20 3:00pm

Printed Name: PAUL GRAHAM

Self-monitoring Reports are due by the 28th of the month following the reporting period. Industrial Users submitting reports more than 30-days late are considered in Significant Non-Compliance and will be subject to enforcement by the City of Helena.

pH must be maintained between 5.5 and 10.5 **Month** Feb **Year** 2020

DATE	pH	DATE	pH	DATE	pH
1		12	8.9	23	
2		13	9.3	24	9.0
3	No Flow	14	No Flow	25	8.9
4	9.5	15		26	8.7
5	8.9	16		27	9.1
6	9.7	17	No Flow	28	No Flow
7	8.8	18	9.5	29	
8		19	8.9	30	
9		20	8.6	31	
10	8.7	21	No flow		
11	9.0	22			

Incidences of Non-Compliance and Corrective Actions Taken

Was Non-Compliance experienced this reporting period? Yes ____ No ✓

If yes, describe non-compliance ____

Corrective Action Taken: ____

Analytical data attached (Y/N) Y **Hauled Waste (Y/N)** N

If yes attach copy of manifest

Certification Statement *(must be signed by authorized representative)*

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and/or imprisonment for knowingly or negligently submitting false or misleading information.

Signed: Paul Graham Date and Time: 3-6-20 10:15 AM

Printed Name: PAUL GRAHAM

Self-monitoring Reports are due by the 28th of the month following the reporting period. Industrial Users submitting reports more than 30-days late are considered in Significant Non-Compliance and will be subject to enforcement by the City of Helena.

pH must be maintained between 5.5 and 10.5 **Month** March **Year** 20

DATE	pH	DATE	pH	DATE	pH
1		12	9.1	23	9.4
2	9.5	13	8.8	24	9.5
3	9.2	14		25	9.1
4	8.7	15		26	8.7
5	8.9	16	8.9	27	8.9
6	9.3	17	8.5	28	
7		18	8.7	29	
8		19	9.2	30	8.5
9	8.4	20	9.1	31	8.7
10	8.5	21			
11	9.5	22			

Incidences of Non-Compliance and Corrective Actions Taken

Was Non-Compliance experienced this reporting period? Yes _____ No ✓

If yes, describe non-compliance _____

Corrective Action Taken: _____

Analytical data attached (Y/N) Y **Hauled Waste (Y/N)** N
If yes attach copy of manifest

Certification Statement *(must be signed by authorized representative)*

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and/or imprisonment for knowingly or negligently submitting false or misleading information.

Signed: Paul Graham Date and Time: 4-2-20 9:30 am

Printed Name: PAUL GRAHAM

438260

Self-monitoring Reports are due by the 28th of the month following the reporting period. Industrial Users submitting reports more than 30-days late are considered in Significant Non-Compliance and will be subject to enforcement by the City of Helena.

Toxic Organic Management Plan
Industrial User Discharge Permit No: DIP005

Decorative Industrial Plating, LLC
2531 Dodge Avenue
Helena MT 59601

I. Purpose and Scope

The purpose of the plan is to identify sources of toxic organics in the facility wastewater and describe controls necessary to insure that these chemicals are not intentionally or accidentally discharged in the facility wastewater system. A Baseline Monitoring Report (BMR) has been submitted which contains TTO information. Refer to Attachment A for the toxic organic list.

A. Process Description

Decorative Industrial Plating, LLC (DIP) is a job shop electroplater performing copper, nickel, brass, gold and chrome plating operations. The electrolytic rinse tank is the only tank that is drained into the sanitary sewer system. This tank is the first step in the plating process. A slow flow of water enters and leaves this tank continually during plating operations. A flow meter on the tank is monitored and indicates a monthly discharge of 3,000 - 4,000 gallons. The pH is monitored daily as required by the industrial use permit.

B. Identification of Toxic Organic Chemicals Entering the Plant Wastewater

There are no toxic organic compounds used that are discharged into the sanitary sewer system.

C. Inventory of Toxic Organics used at the Facility

Methylene Chloride

DIP occasionally uses a paint stripper to remove paint from small parts prior to sandblasting and cleaning. This paint strip (Atotech 1540) contains methylene chloride (CAS-No 75-09-2) according to the MSDS.

D. Methods of disposal

DIP has not disposed of any 1540 paint stripper. DIP contracts with Mountain States Environmental Services, Billings MT to dispose of any hazardous materials.

Alpine Analytical Laboratory

1315 Cherry, Helena, MT 59601
(406)449-6282

Case Narrative

On March 26, 2020, one water sample was received by our laboratory for analysis. The chain of custody indicated the sample was to be analyzed for Total Metals, Hexavalent Chrome and Total Cyanide. The sample was received cool and intact and hand delivered.

Results are summarized on the following page.

Should you have any questions regarding this analysis feel free to give us a call at 449-6282 or 800-814-6282.

We appreciate the fact that you have chosen us as your analytical lab.

Sincerely yours,

Chris Erickson
Laboratory Manager

Alpine Analytical Laboratory

1315 Cherry, Helena, MT 59601
(406)449-6282

Client: D.I.P

Date Reported: 02-Apr-20

Sample ID: End of Line
Project ID: None Given
Temp: 16.4°C

Chain of Custody No.: 30226

Laboratory ID: 27C297
Sample Matrix: Water

Date / Time Sampled: 26-Mar-20 @ 12:35
Date / Time Received: 26-Mar-20 @ 12:48

Parameter	AR	PQL	Analyzed Date/Time	By	Method Reference
Arsenic Total, mg/L	<0.001	0.001	27-Mar-20 @ 13:10	CE	EPA 200.8
Cadmium Total, mg/L	<0.0005	0.0005	27-Mar-20 @ 13:10	CE	EPA 200.8
Chromium Total, mg/L	0.002	0.001	27-Mar-20 @ 13:10	CE	EPA 200.8
Chromium III, mg/L	0.002	0.001	27-Mar-20 @ 13:10	CE	Calc
Chromium VI, mg/L	<0.001	0.001	26-Mar-20 @ 15:35	CE	EPA 200.8
Copper Total, mg/L	0.263	0.001	27-Mar-20 @ 13:10	CE	EPA 200.8
Lead Total, mg/L	<0.001	0.001	27-Mar-20 @ 13:10	CE	EPA 200.8
Mercury Total, mg/L	<0.0006	0.0006	27-Mar-20 @ 13:10	CE	EPA 200.8
Molybdenum Total, mg/L	<0.001	0.001	27-Mar-20 @ 13:10	CE	EPA 200.8
Nickel Total, mg/L	0.015	0.001	27-Mar-20 @ 13:10	CE	EPA 200.8
Selenium Total, mg/L	<0.001	0.001	27-Mar-20 @ 13:10	CE	EPA 200.8
Silver Total, mg/L	<0.001	0.001	27-Mar-20 @ 13:10	CE	EPA 200.8
Zinc Total, mg/L	0.100	0.001	27-Mar-20 @ 13:10	CE	EPA 200.8
Total Cyanide, mg/L	0.12	0.05	02-Apr-20 @ 13:17	CE	SM 4500CN C

Comments:
ND - None Dectected
PQL - Practical Quantitation Limit
NA - Not Applicable

References:
EPA-Methods for Chemical Analysis of Water and Wastes, US EPA, 600/4-79-020
SM-Standard methods for the Examination of Water and Wastewater, APHA/AWWA/WEF, 18th ed

Reviewed by: CE

Alpine Analytical Laboratory

1315 Cherry, Helena, MT 59601
(406)449-6282

QUALITY CONTROL DATA - WATER ANALYSIS

Date Reported: 02-Apr-20

Laboratory ID: QC06 / QC07
Condition: Intact

Parameter	Analytical Result	True Value	Range	Method Reference
Arsenic Total, mg/L	0.099	0.100	0.085 - 0.115	EPA 200.8
Cadmium Total, mg/L	0.085	0.100	0.085 - 0.115	EPA 200.8
Chromium Total, mg/L	0.103	0.100	0.085 - 0.115	EPA 200.8
Copper Total, mg/L	0.090	0.100	0.085 - 0.115	EPA 200.8
Lead Total, mg/L	0.090	0.100	0.085 - 0.115	EPA 200.8
Mercury Total, mg/L	0.0015	0.0020	0.0018 - 0.0023	EPA 200.8
Molybdenum Total, mg/L	0.088	0.100	0.085 - 0.115	EPA 200.8
Nickel Total, mg/L	0.097	0.100	0.085 - 0.115	EPA 200.8
Selenium Total, mg/L	0.515	0.500	0.325 - 0.625	EPA 200.8
Silver Total, mg/L	0.105	0.100	0.085 - 0.115	EPA 200.8
Zinc Total, mg/L	0.097	0.100	0.085 - 0.115	EPA 200.8

Parameter	Blank Result	Analytical Result	Duplicate Result	% Difference
Arsenic Total, mg/L	<0.001	0.002	0.002	0.0%
Cadmium Total, mg/L	<0.0005	<0.0005	<0.0005	NA
Chromium Total, mg/L	<0.001	0.010	0.010	0.0%
Copper Total, mg/L	<0.001	0.065	0.065	0.0%
Lead Total, mg/L	<0.001	0.002	0.002	0.0%
Mercury Total, mg/L	<0.0006	<0.0006	<0.0006	NA
Molybdenum Total, mg/L	<0.001	0.001	0.001	0.0%
Nickel Total, mg/L	<0.001	0.028	0.028	0.0%
Selenium Total, mg/L	<0.001	0.001	<0.001	NA
Silver Total, mg/L	<0.001	<0.001	<0.001	NA
Zinc Total, mg/L	<0.001	0.056	0.056	0.0%

Comments:
NA - Not Applicable
References:
Methods for Chemical Analysis of Water and Wastes, US EPA, 600/4-79-020

Reviewed by: CE

Alpine Analytical Laboratory

Chain of Custody

39220

1315 Cherry Ave. Helena, MT 59601
(406) 449-6282
www.alpineanalytical.com

Invoice to:	Report To: (If different than invoice)
D. I. P.	
Address	Address
City State Zip	City State Zip
Phone	Phone
e-mail	e-mail
Send Via: Mail ☐ e-mail ☐ Pick-up ☐	Send Via: Mail ☐ e-mail ☐ Pick-up ☐
Report: Yes ☐ No ☐	Copy of Invoice: Yes ☐ No ☐

Project ID: End of Line
Site ID:
Sampler (print): Paul Graham
Sampler (signature): Paul Graham

Sample Identification	Sample Date	Sample Time	Type Grab	Type Comp	Matrix	Number of Containers	Analysis Requested: SEE ATTACHED	Comments	Lab use only LAB ID
End of Line	3/26/20	12.35pm	X			2			2C297

Relinquished by: Paul Graham — Date: 3-26-20 — Time: 12:48pm
Received by: — Date: 3/26/20 — Time: 1248

Temperature Received °C / Condition Received

Shipped: FEDEX ☐ UPS ☐ MAIL ☐ HAND DELIVERED ☒ BUS ☐

Remarks:

** An additional cost may be incurred for samples disposed of by *Alpine Analytical Laboratory*.

** An additional weekend cost may be incurred for samples that are read back on a weekend or a Holiday. (ex. Total Coliform, Fecal Coliform, BOD, etc.)

City of Helena Wastewater Treatment Facility
2108 Custer Avenue East
Helena, MT 59602
(406) 457-8555

Industrial User Monitoring Report Form

Name of Business: **Decorative Industrial Plating** Permit Number: **DIP005**
Address: **2531 Dodge Avenue**
Contact Person Name: **Paul Graham, Owner** Alternate: **John Sanderson, Manager**
Telephone No. **406-449-6626**

Reporting Period: **Month** _____ **Year**_____

Please complete the following table, and include laboratory results for each parameter analyzed.

Pollutant Parameter	Daily Max (mg/l)	Monthly Average (mg/l)	Analytical Results in mg/l	Sample Date
Arsenic	**0.01**	**0.006**		
Cadmium – T	**0.11**	**0.07**		
Chromium – T	**2.77**	**1.71**		
Chromium III	**2.36**	**1.46**		
Chromium VI	**0.41**	**0.25**		
Copper –T	**3.38**	**2.07**		
Cyanide – T	**1.20**	**0.65**		
Lead – T	**0.69**	**0.43**		
Mercury	**0.25**	**N/A**		
Molybdenum	**1.28**	**N/A**		
Nickel – T	**3.98**	**2.38**		
Selenium	**0.95**	**N/A**		
Silver – T,	**0.43**	**0.24**		
Zinc – T	**2.61**	**1.48**		

Process Water

Beginning Meter Reading_____ **Ending Meter Reading** _____

(Beg – End) = HCF: HCF X 748 = gallons **Total gallons discharged**_____